

CLAIMS

WHAT IS CLAIMED IS:

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1. A clamp comprising:
a window formed to expose upward a die mounted on a die
5 pad of a lead frame and leads on an outer circumference of
the die on a heater block during a wire bonding process; and
at least one or more observation holes formed in an
outer circumference of the window to set a gate of the lead
frame within a lead eye box and a lead eye point.
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2. The clamp as claimed in claim 1, wherein the at
least one or more observation holes are located in opposite
positions of the outer circumference of the window to detect
an orientation not only of a normal lead frame but also of an
15 inverted lead frame.
3. A structure comprising:
a substrate comprising an unsymmetrical part; and
a clamp, the unsymmetrical part being visible through
20 an observation hole of the clamp.
4. The structure as claimed in claim 3 wherein the
unsymmetrical part comprises a gate.
- 25 5. The structure as claimed in claim 3 wherein the
unsymmetrical part comprises a plated layer on a gate.
6. The structure as claimed in claim 5 wherein the
plated layer comprises a material selected from the group
30 consisting of aluminum, silver, gold, palladium, nickel, lead,
and tin alloys.
7. The structure as claimed in claim 3 wherein the
unsymmetrical part comprises a dent part of a gate.
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8. The structure as claimed in claim 3 wherein the

substrate further comprises a support bar.

9. The structure as claimed in claim 3 further
comprising a camera for setting a lead eye box and a lead eye
5 point on the unsymmetrical part.

10. The structure as claimed in claim 3 wherein the
substrate comprises a normal lead frame.

10 11. The structure as claimed in claim 3 wherein the
substrate comprises an inverted lead frame.

12. The structure as claimed in claim 3 wherein the
substrate is selected from the group consisting of a lead
15 frame, a printed circuit board, a circuit film, and a circuit
tape.

13. The structure as claimed in claim 3 further
comprising a die exposed through a window of the clamp.
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14. The structure as claimed in claim 13 wherein leads
of the substrate are exposed through the window of the clamp.

15. The structure as claimed in claim 13 wherein the
25 die is a symmetrical die.

16. The structure as claimed in claim 13 wherein the
die comprises a specific pattern.

30 17. A structure comprising:
means for setting a first lead eye box and a first lead
eye point on an unsymmetrical part of a substrate;
means for capturing a first picture inside of the first
lead eye box; and
35 means for comparing the first picture to a control
picture stored in a memory.

18. The structure as claimed in claim 17 wherein the means for comparing comprises means for determining a difference between the first picture and the control picture, the structure further comprising means for moving the substrate to make the first picture be completely identical with the control picture.

19. The structure as claimed in claim 17 wherein the means for setting comprises a camera and wherein the means for comparing comprises means for determining a difference between the first picture and the control picture, the structure further comprising means for moving the camera to make the first picture be completely identical with the control picture.

20. The structure as claimed in claim 17 wherein the unsymmetrical part comprises a gate.

21. The structure as claimed in claim 17 wherein the unsymmetrical part comprises a dent part of a gate.

22. The structure as claimed in claim 17 wherein the unsymmetrical part comprises a plated layer on a gate.

23. The structure as claimed in claim 17 wherein the substrate comprises a support bar.

24. The structure as claimed in claim 17 further comprising means for clamping the substrate, wherein the first lead eye box and the first lead eye point are set on the unsymmetrical part of the substrate through an observation hole of the means for clamping.

25. The structure as claimed in claim 17 wherein the substrate comprises a lead frame.

26. A structure comprising:
- means for setting a first die eye box and a first die eye point on a specific pattern of a die;
 - 5 means for capturing a first picture inside of the first die eye box; and
 - means for comparing the first picture to a control picture stored in a memory.